

ABSTRACT OF THE DISCLOSURE

A screw shaft for driving an injection screw driving body in a motor-driven injection device is coupled to a motor shaft of an electric motor in engagement of splines. A spline for the motor shaft engaging with a spline disposed at the outer periphery at a shaft end of the screw shaft is fitted into a recess formed inside of a motor shaft end. A flange formed around the spline is clamped at end face of the motor shaft via a bolt, and is formed at the inner periphery of a bearing sleeve detachably mounted to the motor shaft. An annular groove is formed at the inner periphery of an opening of the bearing sleeve for the side of the screw shaft. A ring member for air-tightly sealing a clearance formed between the screw shaft and the bearing sleeve is fitted into the annular groove. The spline for the motor shaft engaging with the spline on the screw shaft is disposed at the inner periphery of the bearing sleeve independent of the motor shaft, thus achieving the coupling via the respective splines of the motors.